



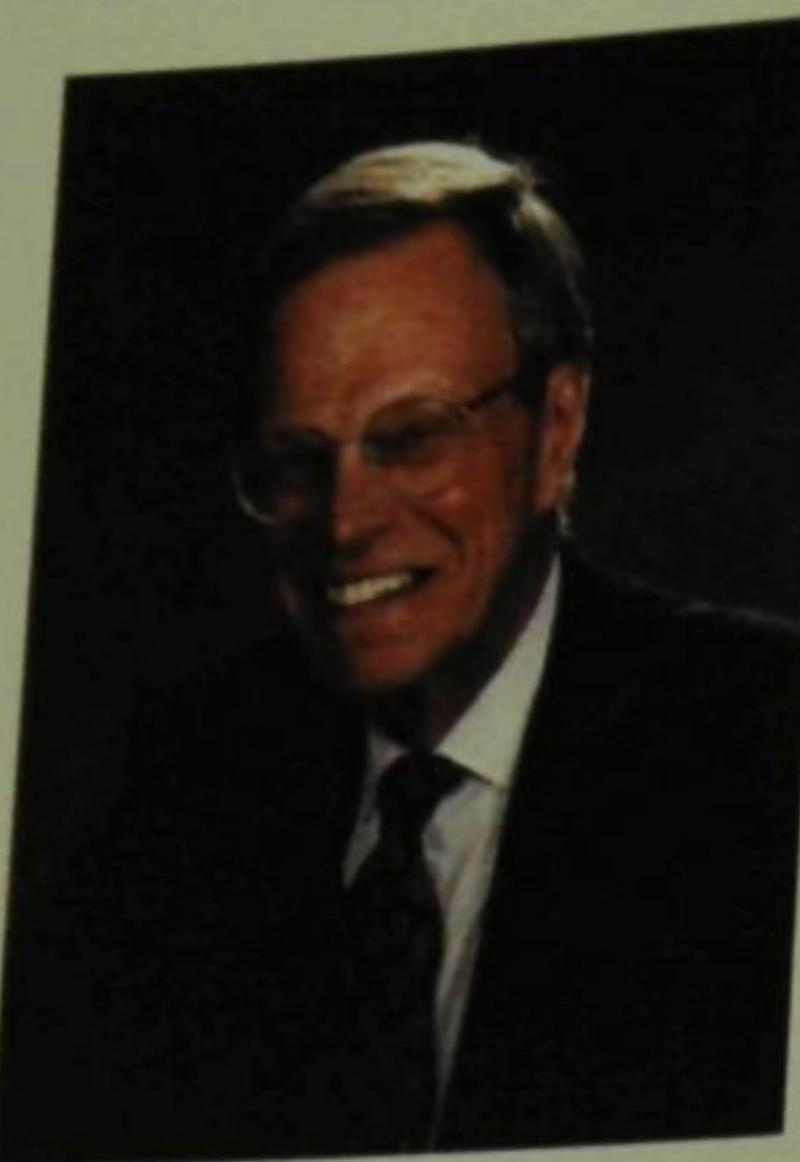
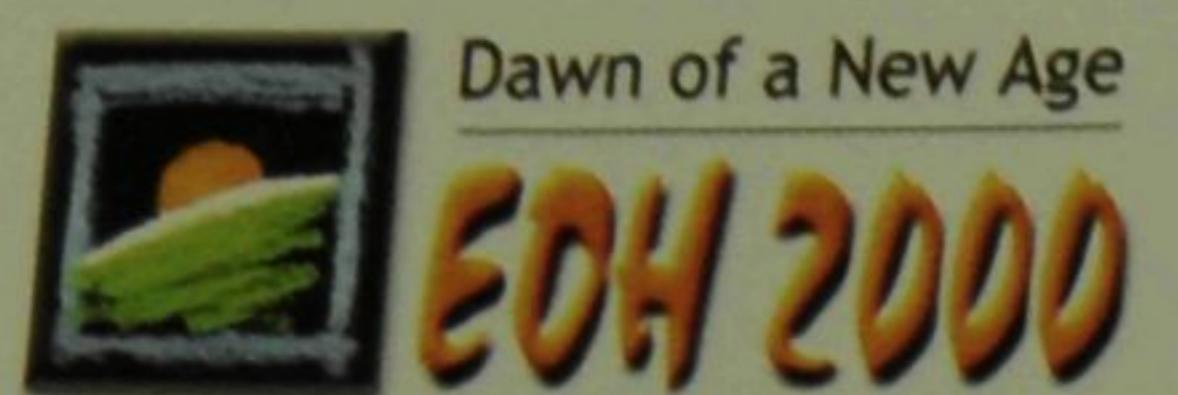
dawn
of a
new
age...

eo6
2000

Engineering Open House

university of illinois at urbana-champaign

Visitor Guide
March 3, 4 2000



Welcome

It is difficult to imagine a new millennium with more justification for the word new than the one we have just entered. The pace of change around us is truly dizzying, and all indications point to a continuing acceleration. The impact of this change, which is clearly driven by technology, is so pervasive that the usual "dividers" of knowledge are increasingly artificial and even detrimental. By the time many young readers of

these words enter their careers, it is reasonable to expect that microchips will be implanted in humans to supplement, supplant, or improve many neurological, physical, or sensing functions. Is that biology, medicine, electrical engineering, or a term not yet invented? As you wander through the many exhibits of EOH, you will encounter the foundation on which the new millennium will be built. Let your imagination roam, and contemplate the role you can play in defining what is truly the "Dawn of a New Age".

William E. Schowalter
Dean of the College of Engineering

Open House Central Committee

Engineering Open House Director
Exhibits Director
Facilities Directors

Director of Corporate Relations
Director of Information
Publicity Director
Jerry Sanders Design Contest Chair
High School Design Contest Chair
Grade School Design Contest Chair
Director of Judging & Awards
Director of Traffic & Safety
Treasurer/Secretary
Entertainment Director
Illini Engineering Challenge Co-Chairs
Engineering Council Advisor

Engineering Open House
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Brian Pokrzwywa
Keith Wessel
Marchelle D'Anna
Bonnie Irwin, Sally Stillwell, and Richard Maul
Amy Bosschart and Randy Ervin from the College of Engineering
Charles Hassell and Susan Rogers from Operations & Maintenance
Mary Reyes, Jo Ellen Francis, and the staff of the Office for Project Planning and Facility Management
Donna Cutsinger and the Engineering Administration
Capt. Kallmayer, Lieutenant Christensen, and the campus police
Leigh O'malley, Office of Continuing Engineering Education
Angela Anderson from the Rehabilitation Center
Debbie Fligor, and Brad Horn from CCSO
Donna Nichols from M & IE
Dan Mast and EE Shop
Chuck Henderson and the ECE Machine Shop
Advanced Micro Devices
TIS Copy Shop
Jeremy Knopow Design
Kevin Bollman, Mike Smith and Showman Entertainment
Jeffrey Macmillan, Anjali Rangaswamy, and Dave Baurac
Jason Rosenbaum and Timothy Zadigian

Special Thanks

Kay Kappes, Hedi Pugh, Alberta Nelson & and staff of 315 Ceramics
Dean William Schowalter & Dean Roscoe Persing from COE
Dean Chuck Olson from ACES
John Hebda
Amy Devine
Meghan Adamczyk
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Eric Martina
Christine Woo
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Diane Scott
Cheri Sutherland
Vandal Auldrige
Cynthia Wilson

Kevin Bollman, Mike Smith and Showman Entertainment
Jeffrey Macmillan, Anjali Rangaswamy, and Dave Baurac
Jason Rosenbaum and Timothy Zadigian

<http://eoh.ece.uiuc.edu>

Highlights

Grade School Competition

The Grade School Programs are once again going to be an exciting part of EOH. The on-site design challenge for 3rd-8th graders will have approximately 700 students from all over Illinois. We are challenging the students to build towers from straws and cups that will elevate a golf ball. Once again a separate challenge, The Recyclable Vehicle Challenge 2000 has been planned for the 7th and 8th graders. The students will be racing their pre-fabricated vehicles made from recyclable food containers and a few other items. The Grade School Village will include several new hands-on exhibits meant to "ooh" and "aah" our audience. Come and check out the amazing things science can do and watch the students compete in the vehicle challenge.

High School Design Contest

Teams of high school students will be doing things the hard way in this year's competition, a Rube Goldberg Machine Contest. Their Rube Goldberg machines will be sealing away the 20th Century in a jar in the most complex ways imaginable. You'll see physics and engineering principles hard at work in a fun, exciting way. Stop by Kenney Gym on Friday to see their creations and to vote for your favorite machine!

W.J. "Jerry" Sanders Creative Design Competition

The W.J. "Jerry" Sanders Creative Design Competition is an annual event pitting some of the best engineers in the midwest in a test of engineering and creativity. The competition is a robot design contest in which participants work in teams for months building robots to complete the designated course. This year's course is a combination obstacle course and hostage rescue. Robots must negotiate the 30 x 30 foot course and rescue three hostages along the way. Join us for one of the most exciting events of EOH and see which teams can claim the \$5000 in prize money. This highlight of Engineering Open House is sponsored by Advanced Micro Devices and encourages creativity and excellence in engineering.

Illini Engineering Challenge

During EOH 2000, on Saturday March 4, visitors to EOH will be given the opportunity to partake in the 3rd Annual Illini Engineering Challenge. This year's project is an egg drop. Participants will be provided the materials necessary to construct a device that can withstand a drop of approximately 15'. Three different difficulty levels will be offered, and they take into account both the age and skill of the participant. The level of skill is differentiated by the materials provided. Those participating as Amateur Engineers will be given: 1 egg; 1 6"x6" square of foam egg crate; 1 sheet of newsprint; 4 popsicle sticks; 5 cotton balls; 2 pipe cleaners; and masking tape. Those who believe themselves to be Semi-Professional Engineers will receive: 1 egg; 1 section of cardboard egg crate; 1 sheet of newsprint; 4 popsicle sticks; 10 cotton balls; 2 pipe cleaners; and masking tape. Participants who believe they have the skills of a Professional Engineer will be given: 1 egg; 1 sheet of newsprint; 15 cotton balls; 8 popsicle sticks; 4 pipe cleaners; and masking tape.

Traffic & Safety

Engineering Open House takes great pains to ensure the safety of our visitors. We ask that visitors not enter those rooms and buildings not marked for EOH use as indicated in the Visitors Guide. Additionally, please follow standard safety precautions with special consideration for campus construction sites.

Food & Entertainment

Ever wonder what engineers do in their spare time? Why, the perform of course! Come to Area 51 to see performing engineers giving it their best! Lunches from Dominos and Zorbas will be available.

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YOUNG EXPLORERS	
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Illini Union

1401 W. Green, Urbana

Map Code: F

The Illini Union Building holds meeting rooms, cafeterias, bowling alleys, the Alumni Association offices, a branch of the University library, and hotel rooms.

Project Listing by Building

DISCIPLINE/PROJECT	SOCIETY	BUILDING	ROOM	YOUNG EXPLORERS	HIGH SCHOOL PROJECTS
Ceramics Building		Ceramics	Hallway	X	X
Nuclear Power	ANS	Ceramics	Hallway	X	X
Project Barnum	Independent	Ceramics	Hallway		X
Digital Computing Lab		DCL	Atrium	X	X
CyberGerm	ACM	DCL	Atrium	X	X
D.A.V.E.	ACM	DCL	Atrium		X
Echo-Fighter	ACM	DCL	Atrium		X
Embedicine	ACM	DCL	Atrium		X
EvilEye	ACM	DCL	Atrium		X
Face Recognition for the Mac OS 9	ACM	DCL	Atrium	X	X
GameNet	ACM	DCL	Atrium	X	X
JarJarmageddon	ACM	DCL	Atrium	X	X
LEGOBots	ACM	DCL	Atrium	X	X
LUG Debugging Utility	ACM	DCL	Atrium		X
MatrixWars	ACM	DCL	Atrium		X
ouR-NUMA: Multiprocessor Computing Cluster	Independent	DCL	Atrium		X
Piku Jinzouningen	ACM	DCL	Atrium	X	X
Project Earthlight	Independent	DCL	Atrium/West	X	X
Real-time Painterly Rendering Engine	ACM	DCL	Atrium		X
Scrolling Sign	ACM	DCL	Atrium		X
Sounds and Visions	ACM	DCL	1320	X	X
Stellar Rifts	Independent	DCL	Atrium/West		X
The Virtual Anatomy Textbook	ACM	DCL	Atrium		X
VirtuaScope	ACM	DCL	Atrium		X
Everitt Laboratory		Everitt			
Bioengineering for Space Travel	EMBS	Everitt	169		
Bioengineering in Dentistry	EMBS	Everitt	170		X
Bioenvironmental Engineering in the 21st Century	EMBS	Everitt	168		X
Bionic Man	EMBS	Everitt	168		X
Butch	IEEE	Everitt	151	X	X
Design of a Hand Prosthetic	EMBS	Everitt	165		X
EMBS Display	EMBS	Everitt	165		X
Gene Therapy	EMBS	Everitt	171		X
Heart Surgeries	EMBS	Everitt	168		X
Issues in Bioethics	EMBS	Everitt	170		X
jCar@EFC - not your ordinary R-C car	EFC	Everitt	57	X	X
Locomotion	EMBS	Everitt	169		X
Medical Imaging	EMBS	Everitt	171		X
Methods of Drug Delivery	EMBS	Everitt	171		X
Molecular Modeling	EMBS	Everitt	170		X
Progress of Instruments	EMBS	Everitt	163		X
Rehabilitation Innovations	EMBS	Everitt	163		X
Society's Future (as seen on TV)	TFS	Everitt	169	X	X
Sports Medicine	EMBS	Everitt	170		X
The Future of Bioengineering	EMBS	Everitt	163		X
The Latest in Biomaterials	EMBS	Everitt	169		X
Too Many Secrets - How Safe is Your Internet Connection?	IEEE	Everitt	145		X
Loomis Laboratory		Loomis			
Bubble Room	Physics Society	Loomis	132	X	X
Electricity and Magnetism Demos	Physics Society	Loomis	Lobby		X
Float'n Illini Display Table	ISDS	Loomis	151	X	X
Fun With Liquid Nitrogen	Physics Society	Loomis	South Lobby	X	X
Guided Missile to Attack Cancer	ANS	Loomis	Hallway	X	X
Holography	Physics Society	Loomis	147	X	X
ISDS Display Table	ISDS	Loomis	151	X	X
Lecture Demos	Physics Society	Loomis	141	X	X
Linear Accelerator	Physics Society	Loomis	136		X
Physics of Toys	Physics Society	Loomis	South Lobby	X	X
Pyrophone	Physics Society	Loomis	164	X	X
Spacecraft Model Building	Physics Society	Loomis	151	X	X
The Virtual Stock Market	ISDS	Loomis	139		
Trebuchet	SBME	Loomis	144		
Undergraduate Research in Physics at UIUC	Physics Society	Loomis	South Lobby	X	X
Who is Raytheon?	ISDS	Loomis	151	X	X
Mechanical Engineering Building		MEB			
"Dawn of a New Age" Key Chain	SME	MEB	217		
Excalibur	Independent	MEB	135		X
Inspecting Gadgets	IIE	MEB	153	X	X
Mini Baja	SAE	MEB	101	X	X

DISCIPLINE/PROJECT	SOCIETY	BUILDING	ROOM	YOUNG EXPLORERS	HIGH SCHOOL PROJECTS
Mini Formula Racecars	SAE	MEB	101	X	X
Planes, Trains, and Automobiles	IIE	MEB	153		X
Resonance and Vibration in Design	ASME	MEB	135	X	X
Simulation Optimization Game	IIE	MEB	153		X
TimberNations II	SAE	MEB	101	X	X
UIUC Hybrid Electric Vehicle Team	SAE	MEB	101	X	X
Virtual Wheel Loader	SWE	MEB	153		X
Metallurgy and Mining Building					
Biomaterials	UIMS	Met&Min	Hallway	X	X
Biomaterials	MatSE Dept	Met&Min	Hallway		
Liquid Crystal Display	UIMS	Met&Min	Hallway		
Materials in Sports	UIMS	Met&Min	Hallway		
Materials Show	UIMS	Met&Min	119	X	X
Nitinol: A Shape Memory Alloy	UIMS	Met&Min	Hallway		
Slip Casting	UIMS	Met&Min	Hallway		
Solar Cell Display	UIMS	Met&Min	Hallway		
The GAP	UIMS	Met&Min	Hallway	X	X
The Uses of Position Sensitive Detectors	UIMS	Met&Min	Hallway		
Newmark Civil Engineering Laboratory					
Concrete Canoe Project	ASCE	Newmark	Cranebay	X	X
Contaminated Groundwater Flow Visualization	SEES	Newmark	Cranebay	X	X
Quicksand-Liquefaction	ASCE	Newmark	Cranebay	X	X
Trends in High Speed Rail Transit	ITE	Newmark	Cranebay		
Roger Adams Laboratory					
"I'd like a decaf please!"	AIChe	RAL	112A		X
"The Cool, Crazy World of Chemical Engineering"	AIChe	RAL	8	X	X
Billboard of the Millenium	AIChe	RAL	116		X
Chemical Engineering or Rocket Science?	AIChe	RAL	112A	X	X
Chemistry in Consumer Products	AIChe	RAL	8	X	X
Flow Around Submerged Objects	AIChe	RAL	112A		X
From Start to Finish	AIChe	RAL	8		X
Fun with Chemistry	AIChe	RAL	8		X
Fun With Merck	AIChe	RAL	8	X	X
Ice Cream - A Closer Look	AIChe	RAL	1st Floor	X	X
Kitchen Chemistry	NOBCChe	RAL	8	X	X
Lifestyles of the Future	AIChe	RAL	8		X
Multiphasic Flow	AIChe	RAL	112A		X
Playing with Polymers	AIChe	RAL	8		X
Presto! The Magnificent Microwave	NOBCChe	RAL	8		X
Production of Corn Products	NOBCChe	RAL	8	X	X
Sword Making 101	AIChe	RAL	112A	X	X
The Life of a Jelly Belly	AIChe	RAL	8	X	X
The Perm	NOBCChe	RAL	8		X
The Shocking Truth About Electrochemistry	AIChe	RAL	8	X	X
What is Biochemical Engineering?	AIChe	RAL	8		X
What's IN that water?	AIChe	RAL	8		X
Water treatment in the chemical industry	AIChe	RAL	112A		X
Talbot Laboratory					
Aircraft can be Stronger than Ever	AIAA	Talbot	104	X	X
Car Crushing	SEM	Talbot	Cranebay	X	X
Cetan... the Hawk Spirit	HPHVT	Talbot	5	X	X
Rocket Science 101	AIAA	Talbot	Outside 103	X	X
RPP-2 Electric R-C Aircraft	AIAA	Talbot	9	X	X
TAM Toys	SEM	Talbot	TBA	X	X
Transportation Building					
A Look Into the Past: Machinery from the 1800's	ISGE	Transportation	201	X	X
Amazing Mechatronics	ISGE	Transportation	216		
Control and Internet Tele-Robotics Display	ISGE	Transportation	316	X	X
GTE Telecommunications Lab Open House	ISGE	Transportation	303		
If You Build It, It Will Run	ISGE	Transportation	306	X	X
Senior Design Project Displays	ISGE	Transportation	1st & 3rd Floor		
Elementary Level Science Exhibit	EOS	Transportation	Main Hallway	X	X

Acronyms

SOCIETIES	
ACM	Association for Computing Machinery
AIAA	American Institute of Aeronautics and Astronautics
AIChe	American Institute of Chemical Engineers
ANS	American Nuclear Society
ASCE	American Society of Civil Engineers
ASME	American Society of Mechanical Engineers
EFC	Engineering Freshman Committee
EMBS	Engineering in Medicine and Biology Society
EOS	Engineering Outreach Society
HPHVT	Human Powered Hydrofoil Vehicle Team
IEEE	Institute of Electrical and Electronics Engineers
IIE	Institute of Industrial Engineers
ISDS	Illini Space Development Society
ISGE	Illinois Society of General Engineers
ITE	Institute of Transportation Engineers
NOBCChe	National Organization of Black Chemical Engineers and Chemical Engineers
SAE	Society of Automotive Engineers
SBME	Society for Business and Management in Engineering
SEES	Society of Environmental Engineers and Scientists
SME	Society of Manufacturing Engineers
SWE	Society of Women Engineers
TFS	Technological Frontiers Society
UIMS	University of Illinois Materials Society
SEM	Society for Experimental Mechanics
BUILDINGS	
Ceramics	Ceramics Building
DCL	Digital Computing Laboratory
Everitt	Everitt Laboratory
Loomis	Loomis Laboratory
MEB	Mechanical Engineering Building
Met&Min	Metallurgy and Mining Building
Newmark	Newmark Civil Engineering Laboratory
RAL	Roger Adams Laboratory
Talbot	Talbot Laboratory
Transportation	Transportation Building
Beckman	Beck



Beckman Institute

405 N. Matthews, Urbana

Map Code: B

The Beckman Institute for Advanced Science and Technology is the largest academic building on campus and anchors the far end of the north campus.

Project Listing by Discipline

DISCIPLINE/PROJECT	SOCIETY	BUILDING	ROOM	YOUNG EXPLORERS	HIGH SCHOOL PROJECTS
Aeronautical and Astronautical Engineering					
Aircraft can be Stronger than Ever	AIAA	Talbot	104	X	
Cetan... the Hawk Spirit	HPHVT	Talbot	5	X	X
Chemical Engineering or Rocket Science?	AIChE	RAL	112A	X	X
ISDS Display Table	ISDS	Loomis	151	X	X
Rocket Science 101	AIAA	Talbot	Outside 103	X	X
RPP-2 Electric R-C Aircraft	AIAA	Talbot	9	X	X
					X
Agricultural Engineering					
Production of Corn Products	NOBCChe	RAL	8	X	
The Life of a Jelly Belly	AIChE	RAL	8	X	X
					X
Bioengineering					
Bioengineering in Dentistry	EMBS	Everitt	170		
Gene Therapy	EMBS	Everitt	171		X
Issues in Bioethics	EMBS	Everitt	170		X
Molecular Modeling	EMBS	Everitt	170		X
Solar Cell Display	UIMS	Met&Min	Hallway		X
The Latest in Biomaterials	EMBS	Everitt	169		X
					X
Biology					
CyberGerm	ACM	DCL	Atrium	X	
Issues in Bioethics	EMBS	Everitt	170	X	
The Virtual Anatomy Textbook	ACM	DCL	Atrium	X	
What is Biochemical Engineering?	AIChE	RAL	8	X	
					X
Chemical Sciences / Chemical Engineering					
"I'd like a decaf please!"	AIChE	RAL	112A		
"The Cool, Crazy World of Chemical Engineering"	AIChE	RAL	8	X	X
Billboard of the Millennium	AIChE	RAL	116		X
Chemical Engineering or Rocket Science?	AIChE	RAL	112A	X	X
Chemistry in Consumer Products	AIChE	RAL	8	X	X
Flow Around Submerged Objects	AIChE	RAL	112A		X
From Start to Finish	AIChE	RAL	8		X
Fun with Chemistry	AIChE	RAL	8	X	X
Fun With Merck	AIChE	RAL	1st Floor	X	X
Ice Cream - A Closer Look	AIChE	RAL	8	X	X
Kitchen Chemistry	NOBCChe	RAL	8	X	X
Molecular Modeling	EMBS	Everitt	170		X
Multiphasic Flow	AIChE	RAL	112A		X
Playing with Polymers	AIChE	RAL	8	X	X
Presto! The Magnificent Microwave	NOBCChe	RAL	8	X	X
Production of Corn Products	NOBCChe	RAL	8	X	X
Sword Making 101	AIChE	RAL	112A		X
The Life of a Jelly Belly	AIChE	RAL	8	X	X
The Perm	NOBCChe	RAL	8	X	X
The Shocking Truth About Electrochemistry	AIChE	RAL	8	X	X
What is Biochemical Engineering?	AIChE	RAL	8		X
What's IN that water?					X
Water treatment in the chemical industry	AIChE	RAL	112A		X
					X
Civil Engineering					
Concrete Canoe Project	ASCE	Newmark	Cranebay	X	X
Quicksand-Liquefaction	ASCE	Newmark	Cranebay	X	X
Trends in High Speed Rail Transit	ITE	Newmark	Cranebay		X
					X
Computer Engineering / Computer Science					
CyberGerm	ACM	DCL	Atrium	X	X
D.A.V.E.	ACM	DCL	Atrium	X	X
Echo-Fighter	ACM	DCL	Atrium		X
Embedicine	ACM	DCL	Atrium		X
EvilEye	ACM	DCL	Atrium		X
Excalibur	Independent	MEB	135		X
Face Recognition for the MacOS 9	ACM	DCL	Atrium		X
GameNet	ACM	DCL	Atrium	X	X
JarJarmageddon	ACM	DCL	Atrium	X	X
LEGOBots	ACM	DCL	Atrium	X	X
LUG Debugging Utility	ACM	DCL	Atrium	X	X
MatrixWars	ACM	DCL	Atrium	X	X
our-NUMA: Multiprocessor Computing Cluster	Independent	DCL	Atrium		X
Piku Jinzouningen	ACM	DCL	Atrium	X	X
Project Barnum	Independent	Ceramics	Hallway	X	X
Project Earthlight	Independent	DCL	Atrium	X	X
Real-time Painterly Rendering Engine	ACM	DCL	Atrium		X
Rehabilitation Innovations	EMBS	Everitt	163		X

DISCIPLINE/PROJECT	SOCIETY	BUILDING	ROOM	YOUNG EXPLORERS	HIGH SCHOOL PROJECTS
Scrolling Sign	ACM	DCL	Atrium		X
Sounds and Visions	ACM	DCL	1320	X	X
Stellar Rifts	Independent	DCL	Atrium/West		X
The Virtual Anatomy Textbook	ACM	DCL	Atrium		X
Virtual Wheel Loader	SWE	MEB	153		X
					X
Environmental Engineering					
"The Cool, Crazy World of Chemical Engineering"	AIChE	RAL	8	X	X
Contaminated Groundwater Flow Visualization	SEES	Newmark	Cranebay		X
What's IN that water?					X
Water treatment in the chemical industry	AIChE	RAL	112A		X
					X
Electrical Engineering					
Amazing Mechatronics	ISGE	Transportation	216		
Excalibur	Independent	MEB	135		X
Nuclear Power	ANS	Ceramics	Hallway	X	X
our-NUMA: Multiprocessor Computing Cluster	Independent	DCL	Atrium		X
Piku Jinzouningen	ACM	DCL	Atrium	X	X
Rehabilitation Innovations	EMBS	Everitt	163		X
The GAP	UIMS	Met&Min	Hallway	X	X
Too Many Secrets -	IEEE	Everitt	145		X
How Safe is Your Internet Connection	SWE	MEB	153		X
Virtual Wheel Loader					X
					X
General Engineering					
"Dawn of a New Age" Key Chain	SME	MEB	217		X
A Look Into the Past: Machinery from the 1800's	ISGE	Transportation	201	X	X
Amazing Mechatronics	ISGE	Transportation	216		X
Control and Internet Tele-Robotics Display	ISGE	Transportation	316	X	X
GTE Telecommunications Lab Open House	ISGE	Transportation	303		X
If You Build It, It Will Run	ISGE	Transportation	306	X	X
Senior Design Project Displays	ISGE	Transportation	1st & 3rd Floor		X
					X
Industrial Engineering					
"Dawn of a New Age" Key Chain	SME	MEB	217		X
Inspecting Gadgets	IIE	MEB	153	X	
Planes, Trains, and Automobiles	IIE	MEB	153		X
Simulation Optimization Game	IIE	MEB	153		X
					X
Life Sciences					
Gene Therapy	EMBS	Everitt	171		X
Issues in Bioethics	EMBS	Everitt	170		X
Molecular Modeling	EMBS	Everitt	170		X
					X
MATSE					
Materials Show	UIMS	Met&Min	119	X	X
Bioengineering in Dentistry	EMBS	Everitt	170		X
Biomaterials	UIMS	Met&Min	Hallway	X	X
Biomaterials	MatSE Dept	Met&Min	Hallway		X
Fun With Merck	AIChE	RAL	8	X	X
Liquid Crystal Display	UIMS	Met&Min	Hallway		X
Materials in Sports	UIMS	Met&Min	Hallway		X
Nitinol: A Shape Memory Alloy	AIChE	RAL	8	X	X
Playing with Polymers	EMBS	Everitt	163		X
Rehabilitation Innovations	UIMS	Met&Min	Hallway		X
Slip Casting	UIMS	Met&Min	Hallway		X
Solar Cell Display	UIMS	Met&Min	Hallway	X	X
The GAP	UIMS	Met&Min	Hallway		X
The Latest in Biomaterials	EMBS	Everitt	159		X
The Uses of Position Sensitive Detectors	UIMS	Met&Min	Hallway		X
					X
Mechanical Engineering					
Nuclear Power	ANS	Ceramics	Hallway	X	X
"Dawn of a New Age" Key Chain	SME	MEB	217		X
Amazing Mechatronics	ISGE	Transportation	216		X
Bioengineering in Dentistry	EMBS	Everitt	170		X
Chemistry in Consumer Products	AIChE	RAL	8	X	X
Excalibur	Independent	MEB	135		X
Flow Around Submerged Objects	AIChE	RAL	112A		X
Multiphasic Flow	AIChE	RAL	112A		X
Rehabilitation Innovations	EMBS	Everitt	163		X
Resonance and Vibration in Design	ASME	MEB	135		X
The Latest in Biomaterials	EMBS	Everitt	169		X
Virtual Wheel Loader	SWE	MEB	153		X
What's IN that water?					X
Water treatment in the chemical industry	AIChE	RAL	112A		X



Kenney Gym
1406 W. Springfield, Urbana
Map Code: G

The H.E. Kenney Gymnasium is one of the oldest buildings on campus. Kenney is currently the home of the University's Men and Women's varsity gymnastic teams.



Agricultural Engineering Sciences Building

1304 W. Pennsylvania, Urbana

Map Code: A

The Agricultural Engineering Sciences Building is home to the Agricultural Engineering Department and the Department of Food Sciences.

DISCIPLINE/PROJECT	SOCIETY	BUILDING	ROOM	YOUNG EXPLORERS	HIGH SCHOOL PROJECTS
Multidisciplinary					
Bioengineering for Space Travel	EMBS	Everitt	169		
Bioenvironmental Engineering in the 21st Century	EMBS	Everitt	168		
Bionic Man	EMBS	Everitt	168		
Butch	IEEE	Everitt	151		
Design of a Hand Prosthetic	EMBS	Everitt	165	X	X
Elementary Level Science Exhibit	EOS	Transportation	Main Hallway	X	X
EMBS Display	EMBS	Everitt	165		X
Float'n Illini Display Table	ISDS	Loomis	151		X
Heart Surgeries	EMBS	Everitt	168		X
jCar@EFC - not your ordinary R-C car	EFC	Everitt	57	X	X
Lifestyles of the Future	AIChE	RAL	8		X
Locomotion	EMBS	Everitt	169		X
Medical Imaging	EMBS	Everitt	171		X
Methods of Drug Delivery	EMBS	Everitt	171		X
Mini Baja	SAE	MEB	101	X	X
Mini Formula Racecars	SAE	MEB	101	X	X
Progress of Instruments	EMBS	Everitt	163		X
Society's Future (as seen on TV)	TFS	Everitt	169	X	X
Spacecraft Model Building	ISDS	Loomis	151	X	X
Sports Medicine	EMBS	Everitt	170		
The Future of Bioengineering	EMBS	Everitt	163		X
The Virtual Stock Market	SBME	Loomis	139		X
TimberNationals II	SAE	MEB	101	X	X
UIUC Hybrid Electric Vehicle Team	SAE	MEB	101	X	X
VirtuaScope	ACM	DCL	Atrium		X
Who is Raytheon?	ISDS	Loomis	151	X	X
Nuclear Engineering					
Guided Missile to Attack Cancer	ANS	Loomis	Cranebay	X	X
Nuclear Power	ANS	Ceramics	Hallway	X	X
Mechanics / Theoretical & Applied Mechanics					
Car Crushing	SEM	Talbot	Cranebay	X	X
TAM Toys	SEM	Talbot	Cranebay	X	X
Physics					
The GAP	UIMS	Met&Min	Hallway	X	X
Bubble Room	Physics Society	Loomis	132	X	X
Electricity and Magnetism Demos	Physics Society	Loomis	Lobby		X
Fun With Liquid Nitrogen	Physics Society	Loomis	South Lobby	X	X
Holography	Physics Society	Loomis	147	X	X
ISDS Display Table	ISDS	Loomis	151	X	X
Lecture Demos	Physics Society	Loomis	141	X	X
Linear Accelerator	Physics Society	Loomis	136		X
Physics of Toys	Physics Society	Loomis	South Lobby	X	X
Pyrophone	Physics Society	Loomis	164	X	X
Trebuchet	Physics Society	Loomis	South Lobby	X	X
Undergraduate Research in Physics at UIUC	Physics Society	Loomis	144		X

CROWE CHIZEK
Systems Consulting Group

Presents:
Battle Tank Commander
Come and cheer your favorite tank
as it competes for the \$1000 Grand Prize!
A 2nd Prize of \$500 and a 3rd Prize of \$250
will also be awarded. Friday, March 3, 2000, from
1 PM to 4 PM in Room 1310 DCL.

CROWE CHIZEK
Certified Public Accountants and Consultants
One Mid America Plaza, Suite 700
Oakbrook Terrace, IL 60181-4450
www.crowechezek.com

Project Descriptions

YOUNG EXPLORERS
HIGH SCHOOL PROJECTS

Ceramics Building

Nuclear Power

American Nuclear Society (ANS)

This project will explain the different ways of producing environmental friendly electricity that are clean, safe, and produce no carbon monoxides. These different ways are: nuclear, wind, and hydroelectric power.

Hallway

Electrical Engineering, Nuclear Engineering, and Mechanical Engineering

Project Barnum

Independent

A virtual fun-house mirror, powered by sophisticated computer vision and rendering algorithms.

Hallway

Computer Science, Computer Engineering

Digital Computing Laboratory

Sounds and Visions

Association for Computing Machinery (ACM)-SIGMusic, Special Interest Group for Music

Sounds and Visions is a sound and light show that shows off the more artistic and creative aspects of Computer Science. The presentation is a combination of 2D, 3D and mixed Video/3D graphics pieces set to a variety of electronic music.

Room 1320

Computer Science, Music

Embedicine

Association for Computing Machinery (ACM)-Association for Computing Machinery

Embedicine is a personal medical device, which combines artificial intelligence, computer vision, and the power of the Internet to act as a virtual doctor. It is not intended to replace a real human doctor, but instead acts as a "first opin-

ion" when a real doctor is not readily available. The device is easy to use, economical, and portable which means it can be used by anyone, anywhere. Embedicine is perfect for third world countries where poor health care and lack of money leads to endless suffering. With this device people will finally be able to enjoy a level of health care similar to the rest of the world.

Atrium

Computer Engineering, Computer Science

LUG Debugging Utility

Association for Computing Machinery (ACM)-LUG, Linux Users Group

The Linux Users Group is writing a free debugging utility that aims to have features not unlike the commercially available Purify. These include memory leak detection, overflow and underflow protection, and possibly a fine grain execution profiler all under a GTK-based X window GUI.

Atrium

Computer Science

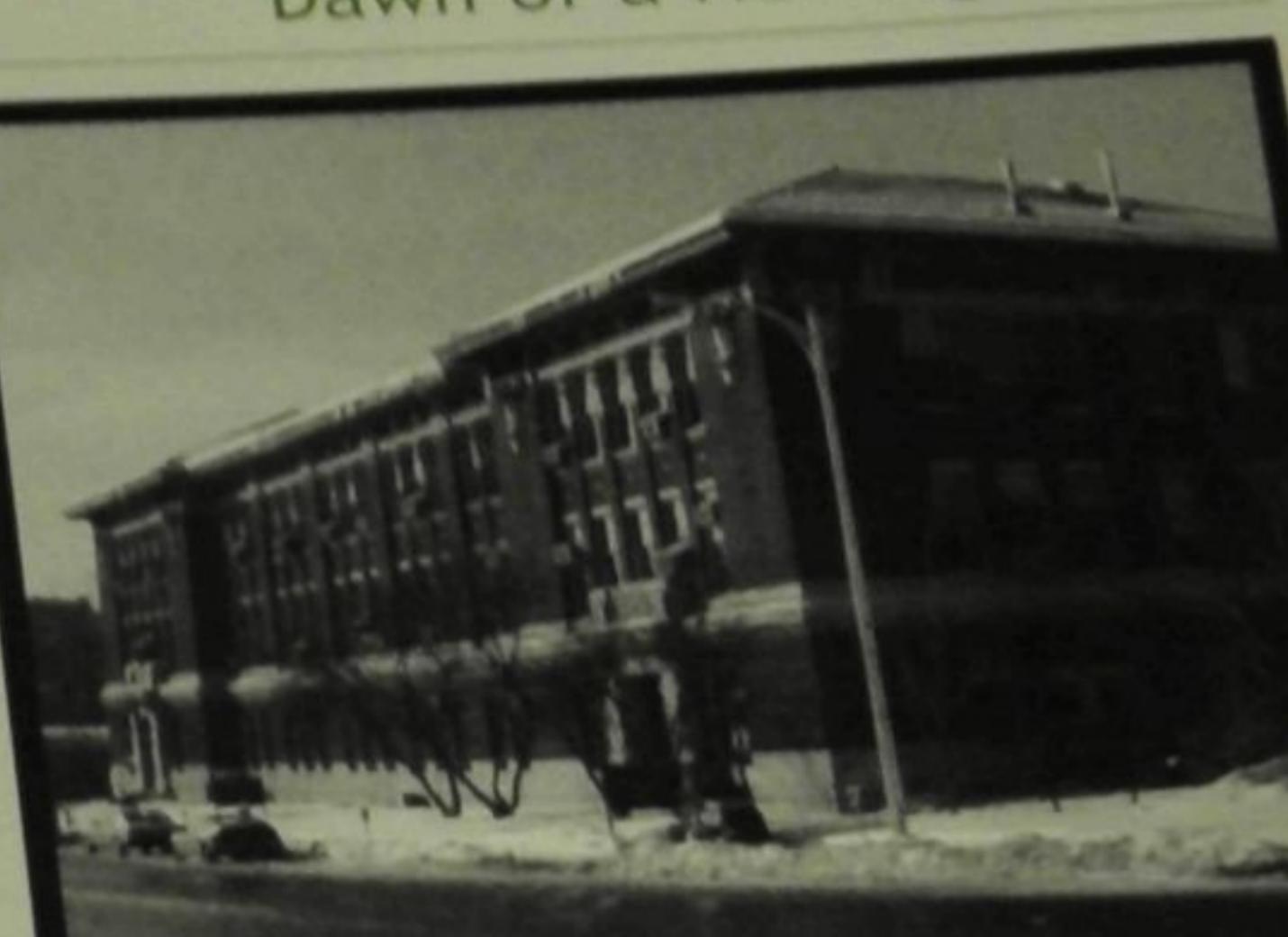
Face Recognition for the Mac OS 9

Association for Computing Machinery (ACM)-MacWarriors, Macintosh Development Group

Does the thought of sitting down at your friendly Macintosh, smiling at a camera, saying your name and instantly being authenticated sound like science fiction? Actually, it's coming very soon. Mac OS 9 already includes a Multiple Users feature, allowing people who share the same computer to have their own personalized environment—and have their files kept safe from prying eyes. Access is regulated via typed password or voiceprint. Thanks to MacWarriors, a user will also be able to use their face as the unique key to their account. This is an ongoing project, which MacWarriors also plans to present (and perhaps release to the public) at the MacHack 2000 conference in Dearborn, Michigan this June.

Atrium

Computer Science



Ceramics Building

105 S. Goodwin, Urbana

Map Code: C

The Ceramics Building is home to the Department of Materials Science and Engineering.

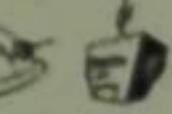


Digital Computing Lab

1304 W. Springfield, Urbana

Map Code: D

The Digital Computing Lab is home to the Department of Computer Science and the Computing and Communications Services Office.

LEGOBots 

Association for Computing Machinery (ACM)-SIGArch, Special Interest Group for Architecture

LEGOBots are robots solely constructed of LEGO building blocks. They will perform in a "get more stuff than the other guy"-type contest, and some will be there just to do cool stuff. The LEGO-Bots will be put in an arena where you can gather around and watch them in action.

Atrium
Computer Engineering

Scrolling Sign 

Association for Computing Machinery (ACM)-SIGArch, Special Interest Group for Architecture

We will develop a stand-alone scrolling sign that can be hooked up via Ethernet to the Internet. People may then send messages to this sign and have them relayed. This project is being done not only as an education tool to basic hardware design but also showing what new technologies can influence old forms of communication.

Atrium
Computer Science, Computer Engineering

EvilEye 

Association for Computing Machinery (ACM)-SIGArt, Special Interest Group for Artificial Intelligence

We are striving to develop a machine vision system that would be capable of real time tracking of primarily human and possibly other kinds of movements. We intend to achieve this through the application of progressively complex algorithms. This year's goal is to utilize the method of optical tags and blue screening such as those often used by the movie industry. For example when tracking the movements of user's hand the user would have to wear a glove of the same color as the background. This glove would have optical markers of unique colors on it. The difficulties in achieving this task are inherent in the nature of distorted and noisy image that we obtain from the real world, tracking the movement of optical markers and presenting hands position in a

correct manner. The second problematic circumstance is that all of the image transformations have to be done in real time.

Atrium
Computer Science

VirtuaScope 

Association for Computing Machinery (ACM)-SIGBio, Special Interest Group for Biomedical Computing

We will be presenting an online optical microscope geared toward biological investigation. Using magnification up to 80x, we hope to open up the world of microscopy to budding young scientists. Using new web technologies, we hope to make this part of a scientific outreach project to local middle and elementary schools in the Urbana/Champaign District. Some of the technologies involved include.

Atrium
All Engineering Fields

CyberGerm 

Association for Computing Machinery (ACM)-SIGBio, Special Interest Group for Biomedical Computing

This project will use a combination of basic genetic algorithms and elementary evolutionary theories to show how diversity and naturalism can occur. The environment will exist solely inside of a computer, and will be subjected to random Malthusian checks. A juxtaposition of science and technology, we plan on incorporating not only fightmate characteristic in our AI agents but also effects of satiation/hunger on evolutionary growth.

Atrium
Computer Science, Biology

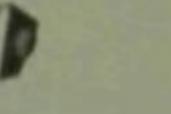
Piku Jinzouningen 

Association for Computing Machinery (ACM)-SIGBot, Special Interest Group for Robotics

It's one small step for Piku; one giant leap for robotics. The dawn of a new automated era is upon us. Through the mystic art of robotics, we have created a new mechanized jinzouningen which will walk upon only two legs. Weighing

in at over 1/20th of a ton and powered by pneumatics, one outstretched leg of this bipedal beast is longer than the human leg.

Atrium
Computer Engineering, Computer Science, Electrical Engineering, Neurology

D.A.V.E. 

Association for Computing Machinery (ACM)-SIGDave, Special Interest Group for Short-Term Distractions

SIGDave's "Dave Automatic Virtual Environment" (D.A.V.E.) is a stereoscopic display system meant for supporting LCD shutter glasses for a 3D effect. The project was implemented in C/C++ using the OpenGL API for graphics.

Atrium
Computer Science, Computer Engineering

Real-time Painterly Rendering Engine

Association for Computing Machinery (ACM)-SIGGraph, Special Interest Group for Computer Graphics

The purpose of this project is to demonstrate real-time painterly rendering. "Painterly rendering" is in the process of "painting" a 3D scene instead of performing traditional rendering operations on it. Our real-time 3D engine shows off another angle of 3D graphics that is often missed due to the desire for "life-like, photorealistic" rendering.

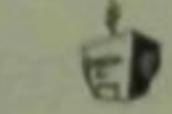
Atrium
Computer Science

GameNet 

Association for Computing Machinery (ACM)-SIGMobile, Special Interest Group for Mobile Computing

Our project involves getting the Game connected to the Internet to play multi-player games anywhere around the world. In order to do this, we will write our own TCP/IP stack for the portable gaming system as well as set up a website where people can go to "connect" with other players.

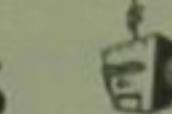
Atrium
Computer Science, Computer Engineering

Echo-Fighter 

Association for Computing Machinery (ACM)-SIGMusic, Special Interest Group for Music

The overall project is a 3D flying game that features 3D audio and an object oriented development paradigm. SIG-Music will develop an environmental audio engine. It has been known since the beginning of computer sound that a reverb effect will mimic the spacious sound of a room. However, reverb has a number of parameters that must be properly set in order to simulate a room in a realistic manner. SIGMusic's audio engine will accurately calculate the reverberations for a given room and will also feature dynamic music and properly modulated sonic ambiance. In addition, WinDevils will implement the game engine, which will incorporate a true-physics hovercraft simulation. An OpenGL graphics engine will be used along with DirectInput for joystick control. The player will fly through care environments and battle hostile craft.

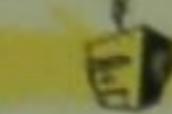
Atrium
Computer Science, Music

MatrixWars 

Association for Computing Machinery (ACM)-SIGSoft, Special Interest Group for Software Development

SIGSoft has developed a multi-player, networked, real-time, combat simulator. It is far in the future and you assume the role of a computer management system bent on world domination. In your arsenal, you control everything from dangerous computer viruses and to helpful firewalls. Key features include 3D OpenGL graphics and an embedded and extended Python interpreter to allow for client-side AI scripting and text-based game interaction.

Atrium
Computer Science

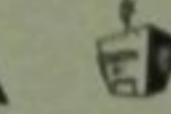
JarJarmageddon 

Association for Computing Machinery (ACM)-WinDevils, Windows Development Group

A 3D flying simulator where you navigate through Beggar's Canyon and the Ice World of Hoth and annihilate JarJar using a Purple Tele-Tubbie launcher. The fully 3D environment is randomly generated at run-time so you never play

the same game twice. It was written entirely in x86 Assembly.

Atrium
Computer Science

OUR-NUMA 

Independent

A common method to compute a big problem faster is to split the problem into smaller pieces and have multiple computers solve the problem together. Typically this is done by networking low-cost computers similar to what you would buy at your local computer store. The OUR-NUMA project is designed to be inexpensive like a store bought computer by using the same type of parts but at the same time be faster because of a much faster network between processors.

Atrium
Electrical Engineering, Computer Engineering

Stellar Rifts 

Independent—MootPoint Productions

Set in the post-apocalyptic future of a distant galaxy, Stellar Rifts is a multi-player real-time strategy war game. With four different races to command, you will have to manage four resources, hundreds of technologies, and 15 types of ships, both on your many planets and in the vastness of space. It offers fast-paced action along with many unique ways to progress through the game and defeat your opponents. Visit www.mootpointproductions.com for more information.

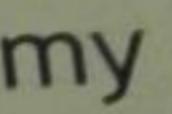
West side of Atrium
Computer Science, Computer Engineering

Project Earthlight 

Independent

Project Earthlight, an interactive 3-D game, pits you and your blade against a computer controlled opponent. Wielding a real-life, tangible lightsabre, you virtually control your digital hero's actions as a computer webcam records your motion. Through the synthesis of Computer Graphics and Computer Vision, Project Earthlight builds upon original undergraduate research in the area of Computer Vision, specifically the field of 3-D gesture interface.

West side of Atrium
Computer Science

The Virtual Anatomy Textbook 

Association for Computing Machinery (ACM) - SIGBio, Special Interest Group for Biomedical Computing

The Virtual Anatomy Textbook (VAT), is a WWW based project that will illustrate how the Internet can be used for educational purposes. Currently, one can find thousands of pages devoted to very complex and involved facets of Biology, but few are suited for high school and middle school students. It is in these groups that we hope our textbook will be useful. Secondly, SIGBio has created this site in order to demonstrate and better educate us with ever changing Internet technology. In less than five years, the World Wide Web has evolved from a mainly text-based information source to a wide-reaching multimedia platform that reaches millions worldwide. Our hope is to demonstrate an effective use of this technology, with an eye on content rather than simple quantity.

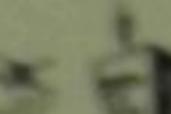
Atrium
Computer Science, Biology

Everitt Laboratory**jCar@EF—not your ordinary R-C car** 

Engineering Freshmen Committee

Like playing with R-C cars? Like playing with the latest technology? We've combined traditional R-C car technology with the latest Internet technology to bring you the ultimate R-C car. Complete with live video from the car, jCar can be controlled from any computer connected to the Internet.

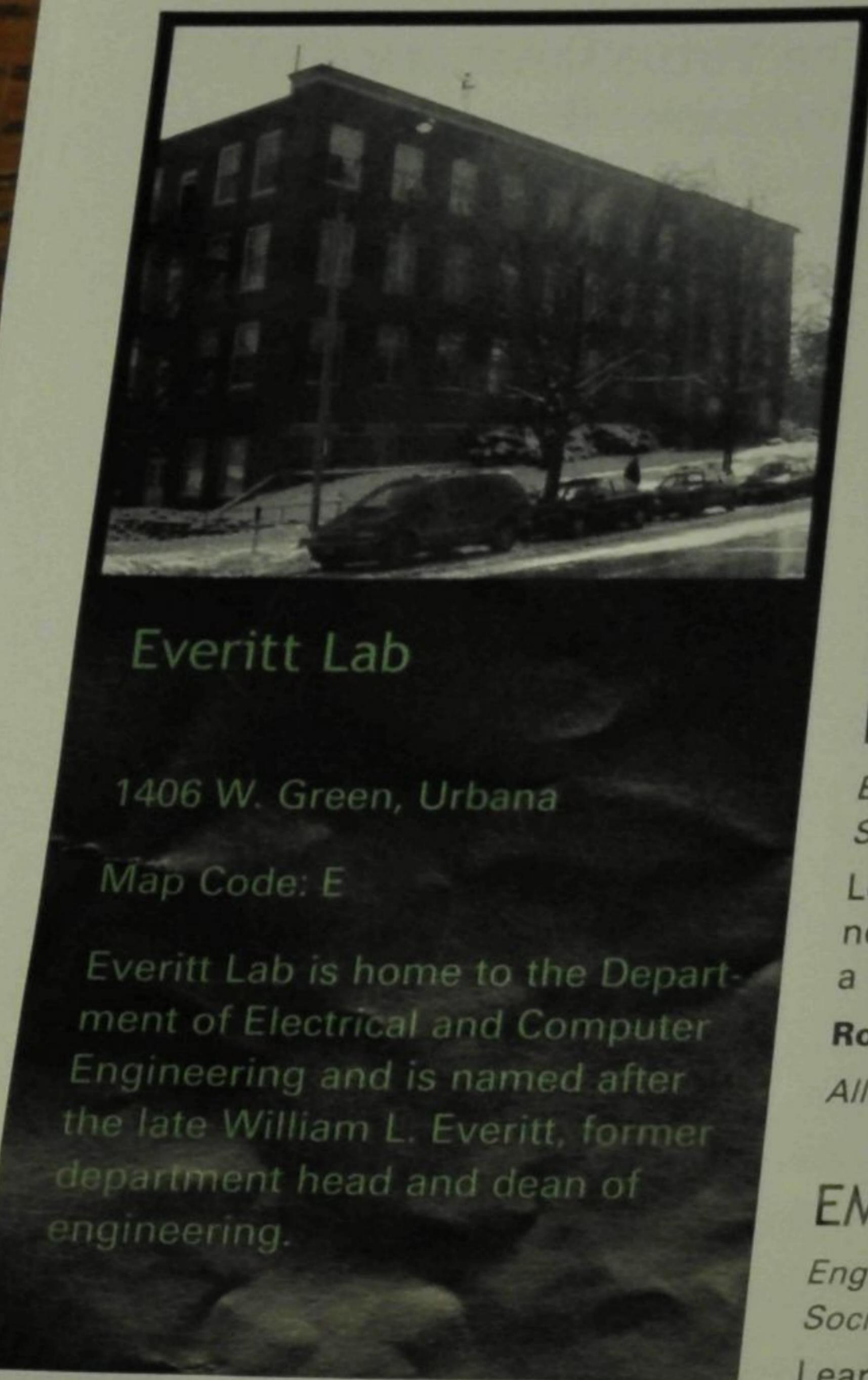
Room 57
All Engineering Fields

Butch 

Institute of Electrical and Electronics Engineers (IEEE)

Admit it, you like blinky lights. Well we've got 1152 of them. Come on over and play Tetris on our multifunction LED display. It's more fun than Al Gore.

Room 151
All Engineering Fields



Everitt Lab

1406 W. Green, Urbana

Map Code: E

Everitt Lab is home to the Department of Electrical and Computer Engineering and is named after the late William L. Everitt, former department head and dean of engineering.

The Future of Bioengineering

Engineering in Medicine and Biology Society (EMBS)

Find out about what topics are currently being researched and what may become possible in the near future.

Room 163

All Engineering Fields

Progress of Instruments

Engineering in Medicine and Biology Society (EMBS)

See how research and medical instruments have developed throughout the years.

Room 163

All Engineering Fields

Bioenvironmental Engineering in the 21st Century

Engineering in Medicine and Biology Society (EMBS)

See how we can improve the quality of our air, food and our relationship between man and his surroundings through the use of computers and technology.

Room 168

All Engineering Fields

Rehabilitation Innovations

Engineering in Medicine and Biology Society (EMBS)

Learn how rehabilitative equipment such as wheelchairs and prosthetics can improve the quality of life for those with disabilities.

Room 168

Mechanical Engineering, Electrical & Computer Engineering, Materials Science

Design of a Hand Prosthetic

Engineering in Medicine and Biology Society (EMBS)

Learn about the application of bioengineering technology in development of a working model of a hand prosthetic.

Room 165

All Engineering Fields

EMBS Display

Engineering in Medicine and Biology Society (EMBS)

Learn about the Engineering in Medicine and Biology Society and bioengineering at the University of Illinois.

Room 165

All Engineering Fields

Bionic Man

Engineering in Medicine and Biology Society (EMBS)

Recent advances have made it possible to make artificial organs, limbs and other body parts. Watch them all come together to make a bionic man.

Room 168

All Engineering Fields

Heart Surgeries

Engineering in Medicine and Biology Society (EMBS)

Learn about artificial heart pumps and valves, pacemakers, and the surgical equipment and procedures used in various open-heart surgeries.

Room 168

All Engineering Fields

Locomotion

Engineering in Medicine and Biology Society (EMBS)

Discover how impact forces travel throughout the body and how artificial devices and limbs can successfully replicate the motions of the body.

Room 169

All Engineering Fields

Bioengineering for Space Travel

Engineering in Medicine and Biology Society (EMBS)

In the new millennium man will return to the moon and visit Mars. Learn about the problems and necessary technology developments to sustain life in space for prolonged periods of time.

Room 169

All Engineering Fields

The Latest in Biomaterials

Engineering in Medicine and Biology Society (EMBS)

Discover how different materials such as metals, ceramics and polymers can successfully play the role for the damaged tissues in your body.

Room 169

Materials Science, Mechanical Engineering, Bioengineering

Sports Medicine

Engineering in Medicine and Biology Society (EMBS)

Find out about the causes and treatments for many of the common and prevalent sports related injuries.

Room 170

All Engineering Fields

Issues in Bioethics

Engineering in Medicine and Biology Society (EMBS)

Learn about the latest controversies surrounding hot topics such as genetic counseling, cloning, and animal testing.

Room 170

Bioengineering, Biology, Life Sciences

Molecular Modeling

Engineering in Medicine and Biology Society (EMBS)

See the latest technology in molecular modeling. Discover how computer simulations can benefit different industries including medicine.

Room 170

Bioengineering, Chemistry, Life Sciences

Bioengineering in Dentistry

Engineering in Medicine and Biology Society (EMBS)

Find out about the progress that has been made in the engineering of instruments, techniques, materials, and implants used in dentistry.

Room 170

Materials Science, Mechanical Engineering, Bioengineering

Medical Imaging

Engineering in Medicine and Biology Society (EMBS)

See the latest development in MRI, ultrasound, and other types of imaging technology and discover the wide range of applications.

Room 171

All Engineering Fields

Methods of Drug Delivery

Engineering in Medicine and Biology Society (EMBS)

Explore the new methods under development for precise drug delivery to specific parts of the human body.

Room 171

All Engineering Fields

Gene Therapy

Engineering in Medicine and Biology Society (EMBS)

Find out how recent advances in a new field called gene therapy can fix hereditary diseases and even determine the sex of a child before it is born.

Room 171

Bioengineering, Life Sciences

Too Many Secrets—How Safe is Your Internet Connection?

Institute of Electrical and Electronics Engineers (IEEE)

Take a look at the security behind internet connections and what it takes to crack the code.

Room 245

Electrical Engineering

Society's Future (as seen on TV)

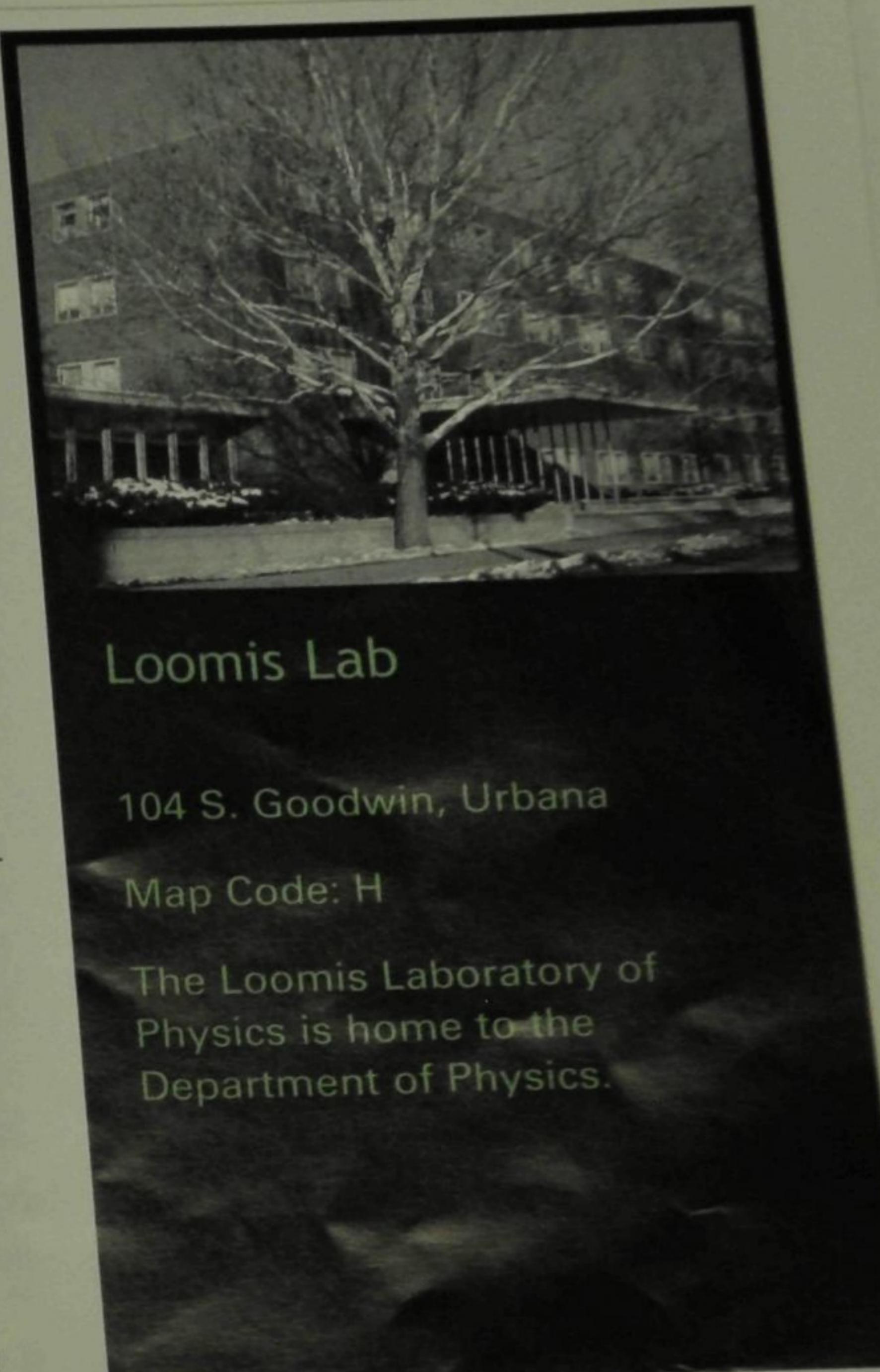
Technological Frontiers Society (TFS)

See the future of society mirrored on tomorrow's fully interactive television shows. In between shows, there will be contests for such things as 'Design your own baby' and 'Build something that will save the future.'

Room 269

All Engineering Fields

Loomis Laboratory



Loomis Lab

104 S. Goodwin, Urbana

Map Code: H

The Loomis Laboratory of Physics is home to the Department of Physics.

Linear Accelerator

Physics Society

The linear accelerator is a set of metal rails that will use E&M principles to accelerate a small metal projectile. The physics behind it will be explained and is mostly intended for high school students and older audience members, but younger audience members will enjoy seeing this exhibit as well.

Room 136

Physics

The Virtual Stock Market

Society for Business and Management in Engineering (SBME)

We have built an online stock market trading game. Come day-trade and see just how much money can be made (and lost).

Room 139

All Engineering Fields

Lecture Demos*Physics Society*

This award-winning exhibit is a delight for all ages. Come see a wide variety of simple physics demonstrations taken from introductory UIUC physics classes. Demos include the Van de Graaff generator, vortex generator, shoot the monkey, plasma ball, and many more. Shows will start approximately every hour.

Room 141*Physics***Undergraduate Research in Physics at UIUC***Physics Society*

UIUC undergrads who have previously done research in physics will give short presentations of their work throughout the day and put up posters describing their work. Talk topics will include astrophysics, solid state physics, etc.

Room 144*Physics***Holography***Physics Society*

A laser setup used to make holograms will be shown and explained. We will also have several holograms that were made by students in the optics class using that setup.

Room 147*Physics***ISDS Display Table***Illini Space Development Society (ISDS) / Float'n Illini*

You got questions, we got answers. Learn about the Illini Space Development Society and the space program.

Room 151*Aerospace Engineering, Physics, Astronomy***Float'n Illini Display Table***Illini Space Development Society (ISDS) /**Float'n Illini*

Who put the "float" in Float'n Illini? Did you know there's an airplane called the Vomit Comet? We've been on it and survived and we've got the pictures to prove it.

Room 151*All Engineering Fields***Who is Raytheon?***Illini Space Development Society (ISDS) /**Float'n Illini*

Learn about the people behind the scenes that made our research possible.

Room 151*All Engineering Fields***Spacecraft Model Building***Illini Space Development Society (ISDS) /**Float'n Illini*

If you were to go into space, what would your spaceship look like? To build the best spaceship, it takes the imagination of a child, numerous colors and many hands to create the "dream" ship. The Illini Space Development Society will provide you with the perfect opportunity to explore your creativity. Come and build the ultimate spacecraft using random household materials.

Room 151*All Engineering Fields***Pyrophone***Physics Society*

The pyrophone is a set of tubes that use fire to make sound. This is definitely an unusual sort of musical instrument.

Room 164*Physics***Guided Missile to Attack Cancer***American Nuclear Society (ANS)*

Diagnostic and Therapeutic using Receptor-targeted Gadolinium Complex agents for Magnetic Resonance Imaging (MRI) and for the Neutron Capture

Therapy (NCT). Our approach uses radiolabeled FA-EDTA-DTPA-153Gd to determine the biodistribution and perform radioimaging *in vivo*.

Hallway*Nuclear Engineering, Radiology, Bioengineering***Electricity and Magnetism Demos***Physics Society*

This is a collection of basic E&M demos mostly intended for older audience members (high school and older). The demos will include the Jacob's ladder, ring shooter (induction cannon), electromagnet, electric motor, voltage generator, etc.

Lobby*Physics***Physics of Toys***Physics Society*

This exhibit features a giant see-through wind-up toy that demonstrates how the inner parts work.

South Lobby*Physics***Trebuchet***Physics Society*

A small working trebuchet will be demonstrated, and audience members will learn about the physics behind how it works. In addition, a video of a larger trebuchet launching larger projectiles will be shown.

South Lobby*Physics***Fun With Liquid Nitrogen***Physics Society*

This exhibit will consist of physics demos using liquid nitrogen and will illustrate basic properties of solids, liquids, and gases. Demos include shrinking balloons, shattering flowers, LN₂ cannon, banana hammer, etc.

South Lobby*Physics***Mechanical Engineering Building****TimberNationals II***Society of Automotive Engineers (SAE)*

Bring your old pinewood derby cars or build them on the spot and race them against other cars in your race class. Prizes will be awarded for the best times.

Room 101*All Engineering Fields***Mini Formula Racecars***Society of Automotive Engineers (SAE)*

Formula-style racecars for the weekend autocrosser will be on display. The race-cars are student conceived, designed and fabricated.

Room 101*All Engineering Fields***UIUC Hybrid Electric Vehicle Team***Society of Automotive Engineers (SAE)*

A Dodge Intrepid that has been converted into a hybrid electric vehicle by a team of student engineers will be on display. The car was built to meet the goals of the US Department of Energy and the US Council for Automotive Research to develop and demonstrate advanced, fuel-efficient vehicles with up to three times the fuel efficiency of today's cars.

Room 101*All Engineering Fields***Mini Baja***Society of Automotive Engineers (SAE)*

A four-wheel, single seat, off-road recreational vehicle will be on display. The off-road vehicles are student conceived, designed and fabricated.

Room 101*All Engineering Fields***Resonance and Vibration in Design***American Society of Mechanical Engineers (ASME)*

The project will consist of several displays showing basic principles of vibration and resonance and how they relate to design. There will be hands on demonstrations for younger visitors as well as some more involved topics for older students.

Room 135*Mechanical Engineering***Excalibur***Independent*

Excalibur is a computer-aided design and manufacturing system that fabricates low-complexity circuit boards. The project is divided into both a software and hardware part. The software part involves writing a Windows based application. In the application the user can select a grid that would represent places on a circuit board to place different components. Once the user has selected the position for the components on the circuit board, the software will send the commands through the parallel port to the control unit of the drill. Since the drill is able to move in the x, y, and z directions, it will be able to position itself anywhere over the circuit board to drill.

Room 135*Computer Science, Mechanical Engineering, Electrical Engineering***Mechanical Engineering Building**

1206 W. Green, Urbana

Map Code: H

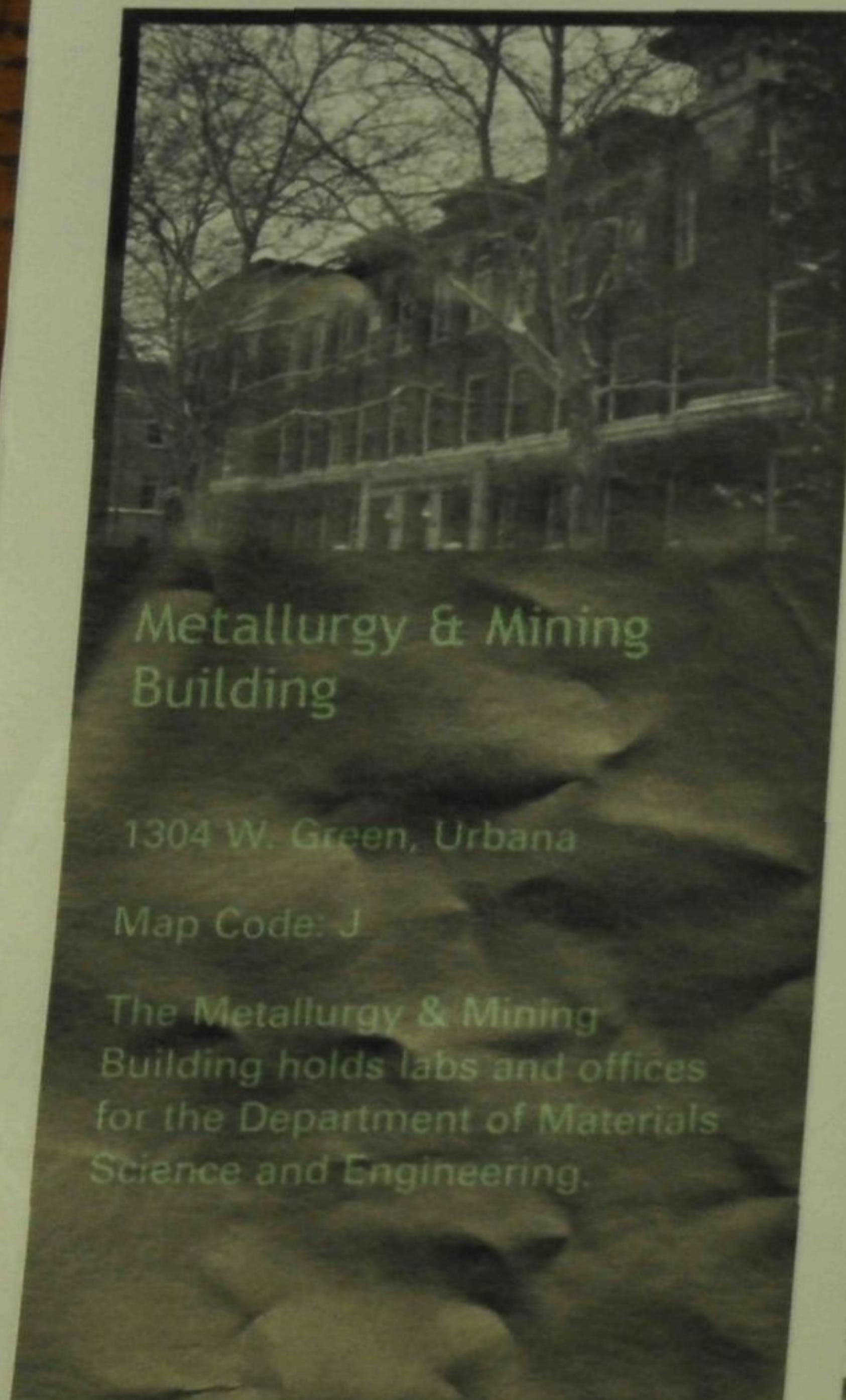
The Mechanical Engineering Building is home of the Department of Mechanical and Industrial Engineering.

Simulation Optimization Game*Institute of Industrial Engineers (IIE)*

Computer simulations are in widespread use by many companies today. These simulations provide companies with a flexible glance at how their solutions will operate before they are actually implemented. This allows for modifications to optimize the system to be made before it is built, thus saving time and money. Our interactive project demonstrates a typical simulation, allowing users to modify variables to try to get the best possible solution.

Room 153*Industrial Engineering***Inspecting Gadgets***Institute of Industrial Engineers (IIE)*

Can you find the lego that's not like the others? This project will introduce elementary students to a basic application of signal detection theory by placing them in a typical manufacturing environment and asking them to play the role of an inspector. As an assembly



Metallurgy & Mining Building

1304 W. Green, Urbana

Map Code: J

The Metallurgy & Mining Building holds labs and offices for the Department of Materials Science and Engineering.

line inspector, they will experience the different factors that make it easier or more difficult to see a defect.

Room 153

Industrial Engineering

Virtual Wheel Loader

Society of Women Engineers (SWE)

The Society of Women Engineers has teamed up with Caterpillar to develop a vehicle operator platform for use in virtual reality simulations of a wheel loader. The result will enable rapid development and evaluation of new concepts by allowing a human operator to "drive" a model of a vehicle in a virtual reality environment.

Room 153

Computer Science, Electrical Engineering, Computer Engineering, Mechanical Engineering

Biomaterials

Material Sciences and Engineering Department

This project is an overview of biomaterial properties and how they affect the materials applications. Current uses of biomaterials are discussed for examples.

Hallway

Materials Engineering

"Dawn of a New Age" Key Chain

Society of Manufacturing Engineers (SME)

A hands-on design and manufacturing experience in today's computer integrated environment. Participants will make their very own personalized "Dawn of a New Age" themed key chain with their own initials engraved on it. This process will demonstrate integrated CAD and manufacturing, as well as utilize some of today's advanced prototyping processes such as stereolithography and RTV molding.

Room 217

Mechanical Engineering, Industrial Engineering, Manufacturing Engineering, Roger Adams Laboratory

Metallurgy & Mining Building

Materials Show

University of Illinois Materials Society (UIMS)

A demonstration of different materials based on a Scooby-Doo theme.

Room 119

Materials Science & Engineering

The Uses of Position Sensitive Detectors

Keramos/University of Illinois Materials Society (UIMS)

Come see a position sensitive detector in person and explore the method behind the madness. Current and potential future uses will be shown as well.

Hallway

Materials Science & Engineering

Nitinol

University of Illinois Materials Society (UIMS)

This is a fairly new and exciting alloy with applications in Bioengineering and Materials Science.

Hallway

Materials Science & Engineering

Slip Casting

University of Illinois Materials Society (UIMS)

Slip casting is one of the most widely used processes used to make ceramics. It's simple and a wide variety of complex shapes can be made from it. You'd be surprised at how much everyday stuff is made by slipcasting. Come see what it's all about and enter the magical world of Ceramics.

Hallway

Materials Science & Engineering

Materials in Sports

University of Illinois Materials Society (UIMS)

This project deals with some of the different materials used in constructing sports equipment.

Hallway

Materials Science & Engineering

Solar Cell Display

University of Illinois Materials Society (UIMS)

Included in this display will be a working solar cell, a model, a brief history and future outlook.

Hallway

Materials Science & Engineering

Liquid Crystal Display

University of Illinois Materials Society (UIMS)

An explanation and demonstration of Liquid Crystal Displays, showing the theory and the applications of these devices.

Hallway

Materials Science & Engineering

The GAP

University of Illinois Materials Society (UIMS)

Why is it that semiconductors are "semi" conductors? Why are metals used as electrical wires? Why are diamonds an excellent insulator? See an "en"light"ing demonstration that explains the basics and more.

Hallway

Materials Science & Engineering, Electrical Engineering, Physics

Biomaterials

University of Illinois Materials Society (UIMS)

Biomaterials are basically any material that can be used inside the body or in medical equipment. The properties of the material are important to its applications. This project gives some examples of current biomaterials and the properties that are important in their use.

Hallway

Materials Science & Engineering

Newmark Civil Engineering Laboratory

Trends in High Speed Rail Transit

Civil Engineering

We will be looking at recent developments and ongoing projects in high speed rail within our country. Also, we will examine possible future locations and developmental possibilities. We will specifically be looking more closely at the new Amtrak Acela high speed line which will eventually run from Boston to New York to Philadelphia to Washington, D.C.

Cranebay

Civil Engineering

Contaminated Groundwater Flow Visualization

Society of Environmental Engineers and Scientists (SEES)

This project will show groundwater flow with video clips on a computer. These

visual models help to explain the dynamics of groundwater flow. Many aspects of contaminated groundwater flow will be shown. Also, the results of decontamination of plumes will be shown.

Cranebay

Geology, Environmental Engineering, Hydrosystems Engineering

Quicksand-Liquefaction

Quicksand

American Society of Civil Engineers (ASCE)

Have you ever seen quicksand in movies and wondered how it formed? This demonstration explains the formation of quicksand and a related phenomenon—liquefaction.

Cranebay

Civil Engineering

Concrete Canoe Project

American Society of Civil Engineers (ASCE)

The Concrete Canoe Project has been a long standing tradition here at the University of Illinois at Urbana-Champaign for over 29 years. If you want to see how we make concrete float, give us a gander and also see many of our past canoes hanging on display for all to see.

Cranebay

Civil Engineering

Roger Adams Laboratory

Lifestyles of the Future

American Institute of Chemical Engineers (AIChE)

A major concern of the 21st century is the depletion of fossil fuels since they constitute a large portion of our energy resources. Examples of alternative sources currently in use are solar energy, hydropower, wind energy, etc. The focus of this project is to demonstrate current usage of alternative energy sources using a model house to present other possible energy sources.

Room 8

All Engineering Fields



Newmark Lab

205 N Mathews, Urbana

Map Code: L

The Newmark Civil Engineering Building is home to the Civil Engineering Department.



Roger Adams Lab

600 S. Mathews, Urbana

Map Code: N

Roger Adams laboratory is home to the Department of Chemical Engineering.

The Shocking Truth About Electrochemistry

American Institute of Chemical Engineers (AIChE)

Upon viewing our project, you will learn the fundamentals of electrochemistry along with viewing some cool hands-on demonstrations.

Room 8

Chemical Engineering

Fun with Chemistry

American Institute of Chemical Engineers (AIChE)

The fun side of chemistry is shown in this project as everyday solutions and objects are used to demonstrate some interesting chemical reactions.

Room 8

Chemical Engineering

From Start to Finish

American Institute of Chemical Engineers (AIChE)

This project is going to be a multiple step process that will show how something starts from the raw material and becomes a common household product.

Room 8

Chemical Engineering

What is Biochemical Engineering?

American Institute of Chemical Engineers (AIChE)

Biochemical Engineering is a rapidly advancing field that uses live organisms in chemical processes. These processes are used in the production of yogurt, alcohol, pharmaceuticals, and many other materials.

Room 8

Chemical Engineering, Biology

The Cool, Crazy World of Chemical Engineering

American Institute of Chemical Engineers (AIChE)

Discover the necessity of chemical engineering in everyday life. Learn

how chemical engineering is used in various processes like refrigeration, treating asbestos, cleaning the soil, and disposing medical waste.

Room 8

Chemical Engineering, Environmental Engineering

Fun With Merck

American Institute of Chemical Engineers (AIChE)

Demonstrations of simple physics and chemistry with common household products. These experiments show how items from everyday life can be applied to teach principles in engineering such as polymerization, viscoelasticity, air pressure, and endothermic reactions.

Room 8

Chemical Engineering, Material Science

Playing with Polymers

American Institute of Chemical Engineers (AIChE)

A hands on demonstration of the polymerization of nylon, slime and silly putty. These exhibits will highlight the chemistry and versatile properties of polymers. By looking at their distinctive properties we will reflect on the applications of these polymers. So come make polymers and get your hands all slimy!

Room 8

Chemical Engineering, Material Science

Chemistry in Consumer Products

American Institute of Chemical Engineers (AIChE)

A remarkable amount of engineering goes into everyday consumer products such as diapers, toilet tissue, and paper towels. Come discover the chemistry that allows ordinary products to become extraordinary.

Room 8

Chemical Engineering, Mechanical Engineering

The Cool, Crazy World of Chemical Engineering

American Institute of Chemical Engineers (AIChE)

Discover the necessity of chemical engineering in everyday life. Learn

Presto! The Magnificent Microwave

National Organization of Black Chemists and Chemical Engineers (NOBCChE)

We are far away from the days of 2 hour meal preparation; the microwave has indeed changed our lives. We can make just about anything in a microwave; there are even thick microwave cookbooks. Have you ever considered the microwave as an engineering marvel? This project will present the history of the microwave, the wonderful engineering behind it, and some fun things that you can do at home with it. We promise that you'll never look at this kitchen appliance.

Room 8

Chemical Engineering

Production of Corn Products

National Organization of Black Chemists and Chemical Engineers (NOBCChE)

This project is designed to describe some common reactions used in manufacturing corn products. It includes a layout of reactors that can be used in a modern facility and a constructed model. In addition, there is a detailed analysis of the corn milling process, and a display of various products extracted from corn.

Room 8

Chemical/Agricultural Engineering

The Perm

National Organization of Black Chemists and Chemical Engineers (NOBCChE)

A hairstyle is worth a thousand words. Many people do not know the mechanics of hairstyles...you sit and wait and... Tada! A new you! One hairstyle or process that involves the breaking of chemical bonds in the hair. This process, the perm, has two forms, the European perm and the perm worn by many African-American women. This project will explore the chemical differences of these two types of treatments. In addition, a historical origin of these chemical processes will also be given.

Room 8

Chemistry

Kitchen Chemistry

National Organization of Black Chemists and Chemical Engineers (NOBCChE)

Kitchen Chemistry is divided into four segments. Each of these segments focuses on an everyday application of chemistry, and attempts to demonstrate and explain these ideas on a level for middle and high school students. The segments include Candy Chromatography, Filtration and Soil Composition, Fun with Polymers, and Cleaning Pennies.

Room 8

Chemistry

Billboard of the Millennium

American Institute of Chemical Engineers (AIChE)

Electronic ink offers a unique way to display an image. The color of the ink is controlled by magnetic fields thus making it possible to change the display by the press of a button. Come and learn about this new technology.

Room 116

Chemical Engineering

Sword Making 101

American Institute of Chemical Engineers (AIChE)

Contact lenses, carpet padding, children's toys, foam packaging, and tracheotomy tubes all have something in common. All these things, and many more, are made using mold injection techniques. Using these mold injection techniques, combat ready and safe 'swords' were made and are going to be on display.

Room 112A

Chemical Engineering

I'd like a decaf please!

American Institute of Chemical Engineers (AIChE)

Before you order your next decaf, come and learn about the chemical principles involved in coffee decaffeination. Discover the important role which solvent extraction plays in this process, its

inherent limitations, and why decaffeinated coffee isn't actually 100% decaffeinated.

Room 112A

Chemical Engineering

Chemical Engineering or Rocket Science?

American Institute of Chemical Engineers (AIChE)

Space shuttles, satellites and rockets, oh my! Take a look at the future of the aerospace industry through a chemical engineer's eyes. Sponsored by the Aerospace Corporation, demonstrations will show how chemical engineers can be rocket scientists, too.

Room 112A

Chemical Engineering, Aerospace Engineering

Dawn of a New Age 17

Multiphasic Flow

American Institute of Chemical Engineers (AIChE)

This project will demonstrate the characteristics of flowing two fluids of different phases simultaneously. Also, it will demonstrate the uses for multiphasic flow in not only industry but also everyday life.

Room 112A

Chemical Engineering, Mechanical Engineering

Ice Cream—A Closer Look

American Institute of Chemical Engineers (AIChE)

Are you an ice cream lover? Did you ever wonder how ice cream is made? If so, this project is for you. Discover its origins, take a tour of the whole ice cream making process, and experience the chemistry and engineering behind it.

1st Floor Hallway

Chemical Engineering

The Life of a Jelly Belly

American Institute of Chemical Engineers (AIChE)

Come and see how a Jelly Belly gourmet Jelly Bean is made from scratch to finished product. A lot of cooking and chemical engineering can go into new jelly beans because of their unusual flavors such as buttered popcorn and coffee.

1st Floor Hallway

Chemical Engineering, Agricultural Engineering

Flow Around Submerged Objects

American Institute of Chemical Engineers (AIChE)

We will be building a soap film on the order of a few microns thick. By controlling a valve we will control the film speed and thickness. This film will be continuously flowing over toy cars of different shapes. By observing the different eddies created by these cars we will be able to examine the aerodynamics caused by the film around the submerged object.

Room 112A

Chemical Engineering, Mechanical Engineering



Talbot Lab

104 S. Wright, Urbana

Map Code: P

Talbot Laboratory houses the Department of Aeronautical and Astronautical Engineering and the Department of Theoretical and Applied Mechanics.



Transportation Building

104 S. Mathews, Urbana

Map Code: Q

The Transportation Building houses the General Engineering Department.

Talbot Laboratory

Cetan... the Hawk Spirit

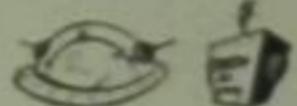
Human Powered Hydrofoil Vehicle Team

Cetan II is the team's second attempt to conquer current world human powered watercraft records. The vehicle, composed largely of carbon fiber and light alloy, is designed, built, and tested by undergraduate students from various fields including Department of Aeronautical and Astronautical Engineering and Department of Physiology.

Room 5

Aeronautical and Astronautical Engineering, Physiology

RPP-2 Electric R-C Aircraft



American Institute of Aeronautics and Astronautics (AIAA)

To promote nationwide study by university students of the application of electric power to a feasible UAV design the American Institute of Aeronautics and Astronautics (AIAA) is sponsoring a Design-Build-Fly competition. The goal is a balanced design possessing good demonstrated flight handling qualities along with practical and affordable manufacturing requirements while providing a high vehicle performance.

Room 9

Aeronautical Engineering

Aircraft can be Stronger than Ever

American Institute of Aeronautics and Astronautics (AIAA)

Using piezo electric technology, aircraft wings and fuselage strength can be multiplied. This cutting edge technology has not even hit the industry yet.

Room 104

Aeronautical & Astronautical Engineering

Rocket Science 101

American Institute of Aeronautics and Astronautics (AIAA)

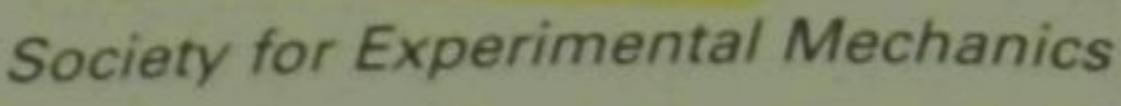
A general overview of aerospace engineering geared toward high school and

grade school students who may be interested in pursuing this area of study.

Outside 103

Aeronautical & Astronautical Engineering

Car Crushing



Society for Experimental Mechanics (SEM)

Bear witness to the awesome destructive power of Talbot Lab's three story, three million pound load frame.

Cranebay

Experimental Mechanics

TAM Toys

Society for Experimental Mechanics (SEM)

The exhibit demonstrates basic principles of mechanics through the use of physical models. Topics from static, dynamic, and fluid mechanics are covered.

TBA

Theoretical and Applied Mechanics

Transportation Building

A Look Into the Past

Gamma Epsilon / Illinois Society of General Engineers (ISGE)

This project is a replication of a mechanical system that is similar to those used in the late 1800's. Working with the Mahomet Museum of Early American History, a group of students is involved in designing and building a working exhibit for the museum. Stop by to see the plans and a brief history on pre-gasoline engine farm machinery.

Room 201

General Engineering

Amazing Mechatronics

Gamma Epsilon / Illinois Society of General Engineers (ISGE)

Come see the walking biped robot, the robotic Fist of Fury, and more, all examples of the combination of electronics and robotics called mechatronics.

Room 216

General Engineering, Mechanical Engineering, Electrical Engineering

GTE Telecommunications Lab Open House

Gamma Epsilon / Illinois Society of General Engineers (ISGE)

Come see what data networks are made of in the GTE Telecommunications Lab. A general open house of the lab will offer a look at such technology as voice-over-IP and video conferencing.

Room 303

General Engineering

Elementary Level Science Exhibit

Engineering Outreach Society (EOS)

A grade school level science project run by a third grade class from Leal Elementary School. The project deals with real-world science and engineering. EOS sponsored. This exhibit shows how science can be applied to everyday experiences.

Main Hallway

All Engineering Fields

If You Build It, It Will Run

Gamma Epsilon / Illinois Society of General Engineers (ISGE)

Intimidated by the insides of your computer? This hands-on exhibit will show how the inside of a computer fits together? Where does RAM go and what does it do? How do you place the CPU chip? What about the hard drive? Stop by and take the first step towards building your own computer.

Room 306

General Engineering

Control and Internet Tele-Robotics Display

Gamma Epsilon / Illinois Society of General Engineers (ISGE)

A demonstration of the Internet Controls Lab will show the experimental control of an inverted pendulum done over the Internet. Watch the experiment over the web with live video and real-time virtual reality animation.

Room 316

General Engineering

Senior Design Project Displays

Gamma Epsilon / Illinois Society of General Engineers (ISGE)

See engineering skills put to use to find real solutions to real problems. General Engineering students are paired up with companies from various industries to solve an assortment of engineering problems. Students will be on hand Friday to discuss their projects.

1st and 3rd Floor

General Engineering

*We support creativity
in any medium.
Our favorite is aluminum.*

DaimlerChrysler, the company that continues to redefine the shape of cutting-edge automotive engineering, is pleased to be involved with the Engineering Open House at the University of Illinois. We look forward to working with the engineers of tomorrow.

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Aaron Seneff, Design Engineer
BS, Engineering '98

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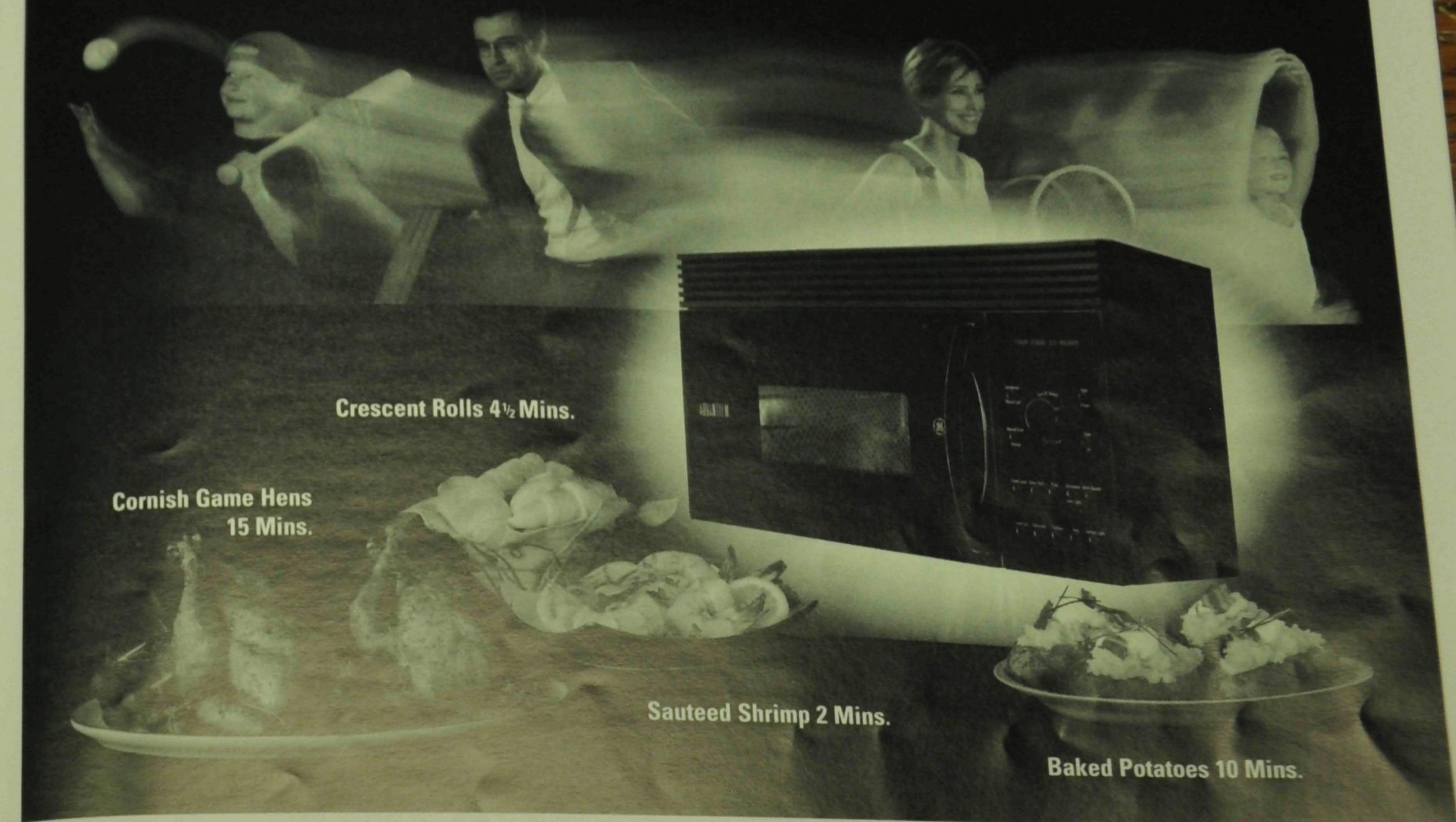
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See the Advantium technology at work at the GE booth at EOH2000!

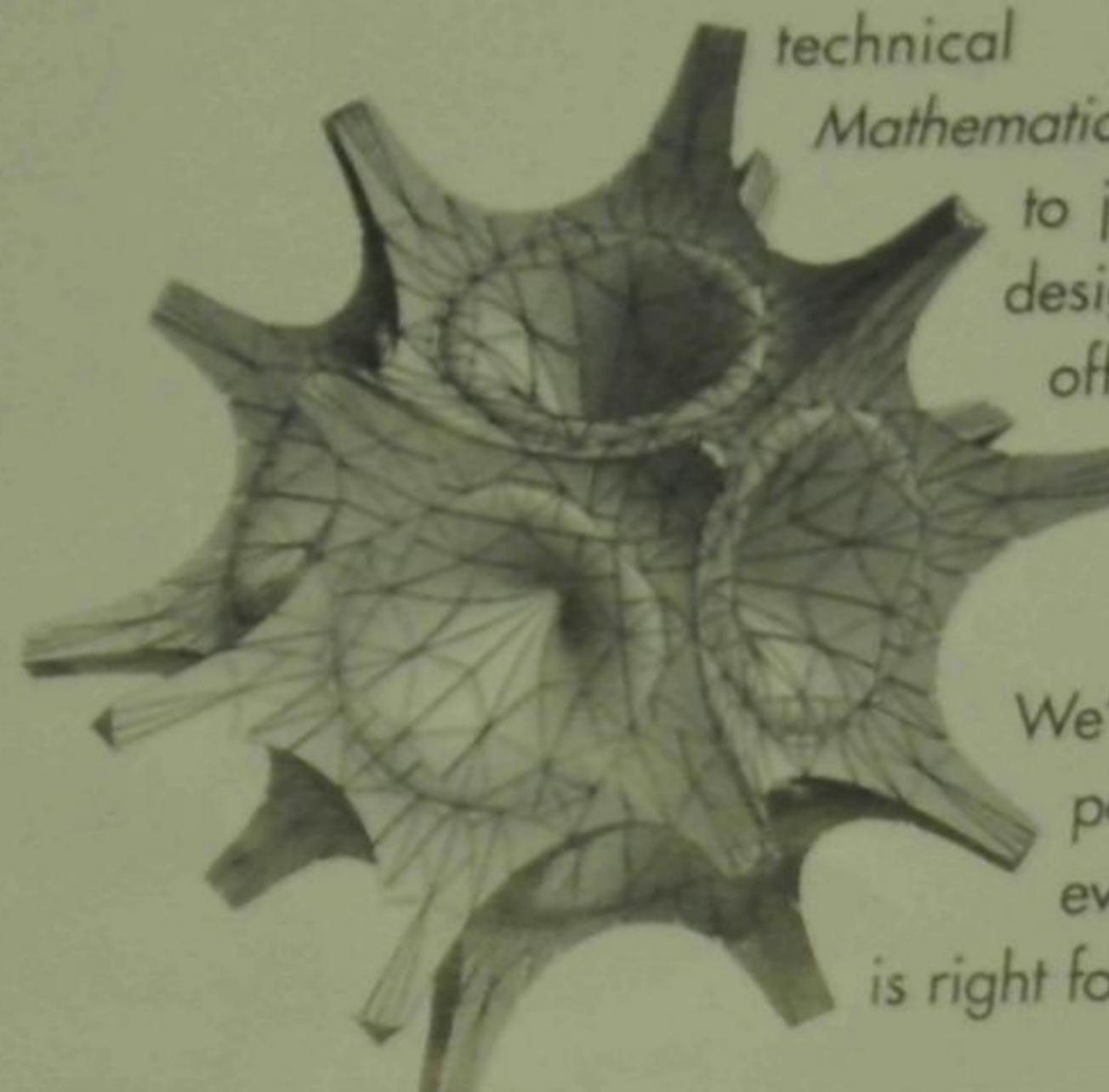
minutes. Baked potatoes – ten. And unlike microwave ovens, food is juicy inside, crispy outside. It's as easy as turning a dial.

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Optimization Developer
Symbolic Computation Developer
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Technical Support Engineer
Technology Assistant to CEO
User Interface Developer
Unix Programming and Technical
Research Associate
X/Motif Programmer

Information Technology:

Business Operations Programmer
Corporate Librarian
Database Developer
Macintosh Tester
Part-Time Software Testers
Quality Assurance Web/Informations
Systems Engineer
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The Ford team will be landing in Urbana, IL on March 3rd-4th at Engineering Open House (EOH) 2000 "Dawn of a New Age"

See who we are... Ask what we do... Tell us your thoughts...

Reported Ford sightings

- AREA 51 Tent (between Engineering Hall and Everitt)
- MEB Auto Lab
- Knight's of St. Pat Ball (Holiday Inn, Urbana)

Leaders in shaping the world we share
At Ford only the sky is the limit... for now!!!

Hungry? Get your "eat" on at Area 51 and find out what engineers at U of I are really like along the way!



Area 51

@Engineering Open House 2000
University of Illinois Champaign-Urbana
(Between Everitt and Engineering Hall on Green St.)

Great food
Great bands
Great acts
And that includes
Juggling

There's a lot more to being an engineer than they let you know.

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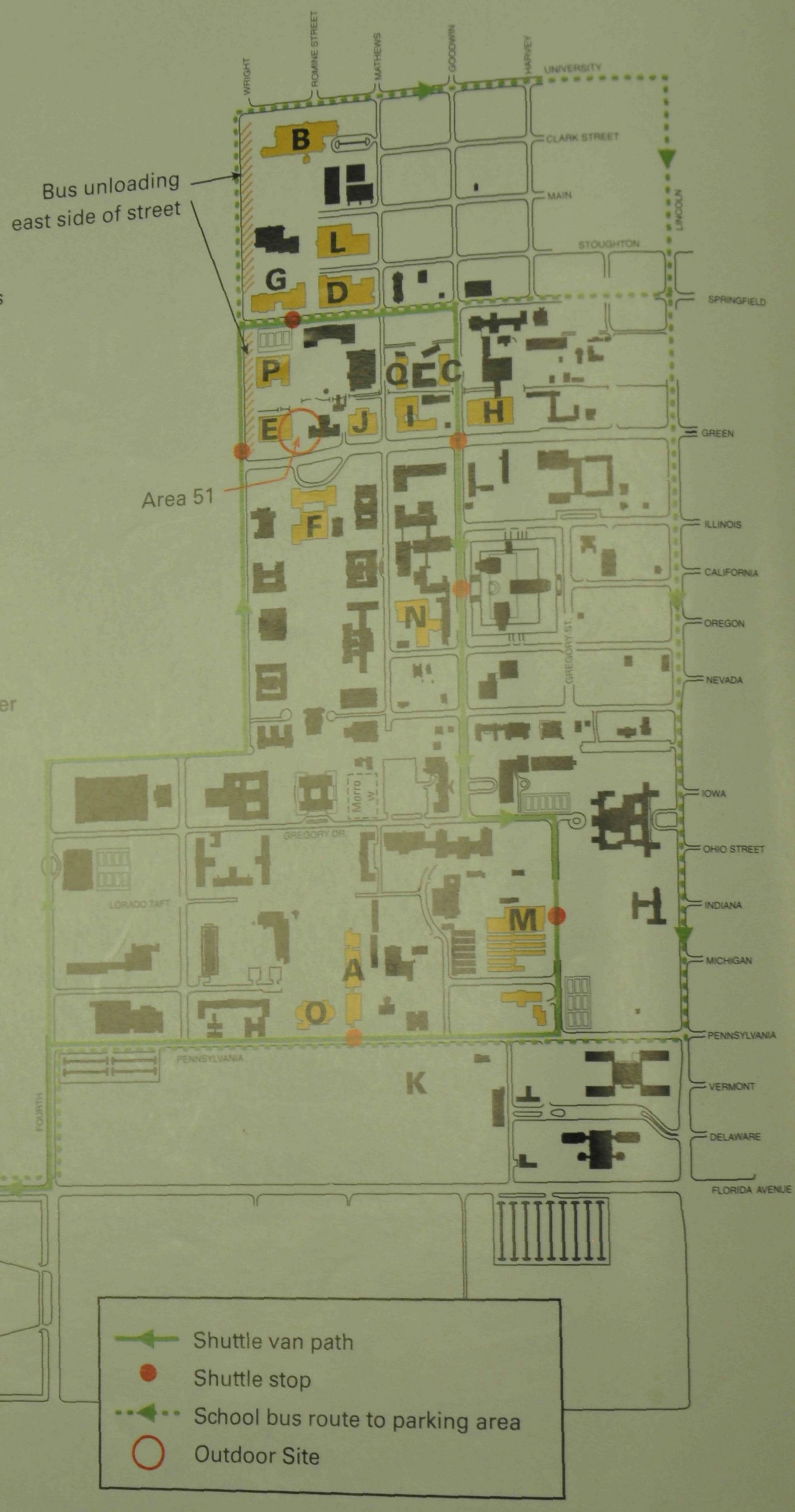
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Dawn of a New Age
EOH 2000

CODE BUILDING

- A** Agricultural Engineering Sciences
- B** Beckman Institute
- C** Ceramics Building
- D** Digital Computing Lab
- E** Everitt Lab
- F** Illini Union
- G** **Kenney Gym (EOH HQ)**
- H** Loomis Lab
- I** Mechanical Engineering Building
- J** Metallurgy & Mining Building
- K** National Soybean Research Center
- L** Newmark Lab
- M** Plant Science Lab
- N** Roger Adams Lab
- O** Stock Pavilion
- P** Talbot Lab
- Q** Transportation Building



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